

Product datasheet for **RC226899**

EML4 (NM_001145076) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EML4 (NM_001145076) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EML4
Synonyms:	C2orf2; ELP120; EMAP-4; EMAPL4; ROPP120
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC226899 representing NM_001145076
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGACGGTTTCGCCGGCAGTCTCGATGATAGTATTTCTGCTGCAAGTACTTCTGATGTTCAAGATCGCC
 TGTGAGCTCTTGAGTCACGAGTTTCAGCAACAAGAAGATGAAATCACTGTGCTAAAGCGCGCTTTGGCTGA
 TGTTTTGAGGCGTCTTGAATCTCTGAAGATCATGTGGCCTCAGTGAAAAATCAGTCTCAAGTAAAGGC
 CAACCAAGCCCTCGAGCAGTTATTCCCATGTCTGTATAACCAATGGAAGTGGTGCAACAGAAAACCAA
 GTCATACCAGTGTCTCAATTGCAGGAAAAGAACTCTTTCATCTGCTGCTAAAGCATAAAACGACC
 ATCACCAGCTGAAAAGTACATAATTCTTGGGAAAATTCAGATGATAGCCGTAATAAATTGTCGAAAATA
 CCTTCAACACCCAAATTAATACCAAAAGTTACCAAACTGCAGACAAGCATAAAGATGTCATCATCAACC
 AAGAAGGAGAATATATTTAAATGTTTATGCGCGGTGCGCAATTACCATGTTTCCTTCCGATGTTGA
 CAACTATGATGACATCAGAACGGAAGTGCCTCCTGAGAAGCTCAAAGTGGAGTGGGCATATGTTTATCGA
 GGAAGGACTGTAGAGCTAATGTTTACCTTCTTCCGACCGGGGAAATAGTTTATTTTCATTGCATCAGTAG
 TAGTACTATTTAATTATGAGGAGAGAAGTCAAGCAGACTACCTGGGCCATACAGACTGTGTGAAATGCCT
 TGCTATACATCCTGACAAAATTAGGATTGCAACTGGACAGATAGCTGGCGTGGATAAAGATGGAAGGCCT
 CTACAACCCACGTGAGAGTGTGGGATTCTGTTACTCTATCCACACTGCAGATTATTGGACTTGGCACTT
 TTGAGCGTGGAGTAGGATGCCTGGATTTTTCAAAGCAGATTGAGGTGTTTATGTTTATTGATGA
 CTCCAATGAGCATATGCTTACTGTATGGGACTGGCAGAGGAAAGCAAAAGGAGCAGAAATAAAGACAACA
 AATGAAGTTGTTTTGGCTGTGGAGTTTCACCAACAGATGCAAAATACCATAATTACATGCGGTAATCTC
 ATATTTTCTTCTGGACCTGGAGCGGCAATTCATAACAAGAAAACAGGGAATTTTTGGGAAATATGAAAA
 GCCAAAATTTGTGAGTGTGTTAGCATTCTTGGGAATGGAGATGTTCTTACTGGAGACTCAGGTGGAGTC
 ATGCTTATATGGAGCAAACTACTGTAGAGCCACACCTGGGAAAGGACCTAAAGGTGTATATCAATCA
 GCAACAAATCAAAGCTCATGATGGCAGTGTGTTCACTTTGTGAGATGAGAAATGGGATGTTATTAAC
 TGGAGGAGGAAAGACAGAAAAATAATTCTGTGGGATCATGATCTGAATCCTGAAAGAGAAATAGAGGT
 CCTGATCAGTATGGCACAATCAGAGCTGTAGCAGAAGGAAAGGCAGATCAATTTTTAGTAGGCACATCAC
 GAACTTTATTTACGAGGAACATTTAATGATGGCTTCCAATAGAAAGTACAGGGTCATACAGATGAGCT
 TTGGGGTCTTGCCACACATCCCTTCAAAGATTTGCTCTTGACATGTGCTCAGGACAGGCAGGTGTGCTG
 TGGAACTCAATGGAACACAGGCTGGAATGGACCAGGCTGGTAGATGAACCAGGACACTGTGCAGATTTTC
 ATCCAAGTGGCAGTGGTGGCCATAGGAACGCACTCAGGCAGGTGGTTTGTCTGGATGCAGAAACAG
 AGATCTAGTTTCTATCCACACAGACGGGAATGAACAGCTCTCTGTGATGCGCTACTCAATAGATGTTACC
 TTCTGCTGTAGGATCTCATGACAACTTTATTTACCTCTATGTAGTCTCTGAAAATGGAAGAAAATATA
 GCAGATATGGAAGGTGCACTGGACATTCAGCTACATCACACACCTTGACTGGTCCCCAGACAACAAGTA
 TATAATGTCTAACTCAGGAGACTATGAAATATTGTACTGGGACATTCCAATGGCTGCAAACTAATCAGG
 AATCGATCGGATTGTAAGGACATTGATTGGACGACATATACCTGTGTGCTAGGATTTCAAGTATTTGGTG
 TCTGGCCAGAAGGATCTGATGGGACAGATATCAATGCACTGGTGGATCCCAATAAGAAAGGTGATAGC
 TGTTGCCGATGACTTTTGTAAAGTCCATCTGTTTCAGTATCCCTGCTCCAAAGCAAAGGCTCCAGTCA
 AAGTACAGTGCCACAGCAGCCATGTACCAATGTCAGTTTTACTACAATGACAGTCACCTGATATCAA
 CTGGTGGAAAAGACATGAGCATATTAGTGGAAGCTTGTGGAAGGTTATCTTTGCCTCAGAATGAGAC
 TGTAGCGGATACTACTCTAACCAAGCCCCGTCTCTTCCACTGAAAGTGTATCCAATCTAATACTCCC
 ACACCGCCTCTTCTCAGCCCTTAAATGAGACAGCTGAAGAGGAAAGTAGAATAAGCAGTTCTCCACAC
 TTCTGGAGAACAGCCTGGAACAACTGTGGAGCCAAGTGAAGACCACAGCGAGGAGGAGAGTGAAGAGGG
 CAGCGGAGACCTTGGTGAACCTTTATGAAGAGCCATGCAACGAGATAAGCAAGGAGCAGGCCAAAGCC
 ACCCTTCTGGAGGACCAGCAAGACCTTCGCCCTCGTCC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226899 representing NM_001145076

Red=Cloning site Green=Tags(s)

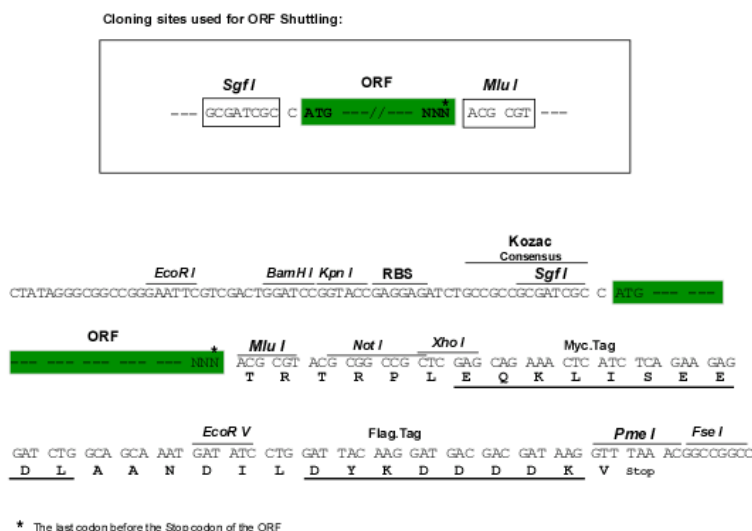
MDGFAGSLDDSIISAASTSDVQDRLSALESRVQQQEDEITVLKAALADVLRLRAISEDHVASVKKSVSXSG
QPSRAVIPMSCITNGSGANRKPSHTSAVSIAGKETLSSAAKSIKRPSAEKSHNSWNSDDSRNKLSKI
PSTPKLIPKVTKTADKHKDVIIINQEGEYIKMFMGRPITMFIIPSDVDNYDDIRTELPEKLKLEWAYGYR
GKDCRANVYLLPTGEIYVFIASVVVLFNYEERTQRHYLGHTDCVKCLAHPDKIRIATGQIAGVDKGRPL
LQPHVRVWDSVTLSTLQIIGLGTFERGVGCLDFSKADSGVHLCVIDDSNEHMLTVWDWQRKAKAGAEIKTT
NEVVLAVEFHPTDANTIITCGKSHIFFWTWSGNSLTRKQIGFKGYEKPKEFVQCLAFLNGDVLTDGSGGV
MLIWSKTTVEPTPGKGPKEVYQISKQIKAHGDSVFTLCQMRNGMLLTGGGKDRKIILWDHDLNPEREIEV
PDQYGTIRAAVEGKADQFLVGTSRNFIILRGTFNDGFIQIEVGHTDELWGLATHPFKDLLLTCAQDRQVCL
WNSMEHRLWETRLVDEPGHCADFHPSGTVVAIGTHSGRWFVLDAETRDLVSIHTDNEQLSVMRYSIDGT
FLAVGSHDNFIYLYVSENGRKYSTRYGRCTGHSSYITHLDWSPDNKYIMNSGDEILYWDIPNGCKLIR
NRSDCKDIDWTTYTTCVLGFQVFGVWPEGSDGTDINALVRSHNRKVIADADDFCKVHLFYQPCSKAKAPSH
KYSASHSHVNTVSFTHNDSHLISTGGKDMSIIQWKLVEKLSLPQNETVADTTLTAKAPVSSTESVIQNSPT
TPPSSPLNTEAEESRISSSPTLLENSLEQTVEPSEDHSEEESEEGSGDLGEPLYEPCNEISKEQAKA
TLEEDQDDPSPPS

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

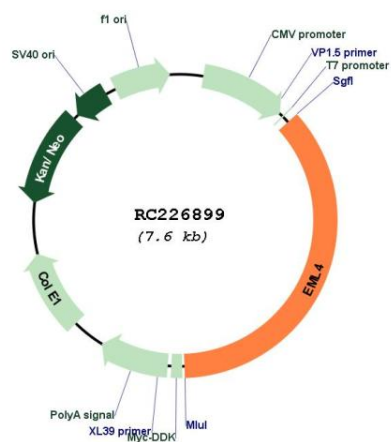


ACCN: NM 001145076

ORF Size: 2769 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001145076.3
RefSeq ORF:	2772 bp
Locus ID:	27436
UniProt ID:	Q9HC35
Cytogenetics:	2p21
Protein Families:	Druggable Genome
MW:	102.3 kDa
Gene Summary:	This gene is a member of the echinoderm microtubule associated protein-like family. The encoded WD-repeat protein may be involved in microtubule formation. Abnormal fusion of parts of this gene with portions of the anaplastic lymphoma receptor tyrosine kinase gene, which generates EML4-ALK fusion transcripts, is one of the primary mutations associated with non-small cell lung cancer. Alternative splicing of this gene results in two transcript variants. [provided by RefSeq, Jan 2015]

Product images:



Circular map for RC226899